Quality Control

NCR:	Yes	/ No				WORK ORDER NON-C	Or	NFOR	MANCE / UP	DATE	QA Closed:	Date	
						1					QA Closed:	Date	·
Work Ord	er:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part I	•					Rework Scrap		Skid-tube Crosstube Machining Small Fab		Small Fab	Water Jet Prod. Eng. Coor.		Engineering Quality
NCR I	No.					Use-as-is Work Order Update			noforming Large Fab	Finishing Composite	Rec/Stor	re/Packaging Supplier	Other
Root					Descri	ption of work order update	ı	nitial	Act	tion	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Ch	ief Eng	Desci	ription	Date	Verification	QC Inspector
Doc/Data	Ш												
Equip/Tooling													
Operator	Ш										ļ '		
Material	Ш												
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Process	$\vdash \vdash \vdash$												
Supplier Training	H												
Unapproved	Н												
оларрготса				1	1	F	AUL	T CATE	GORY		<u> </u>	L	
Landi	ng G	Gear	· · · · · · · · · · · · · · · · · · ·			General			<u> </u>				
		Bending				Bend		Grain			Ovalized	Γ	Pressure/Forced
	П	Centre No	t Conce	ntric to	o/s	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
		Cracks				Broken/Damaged		Inspecti	ori Incomplete		Part Incorre	ct	Weld
		Crushed/0	Crimped.			Burrs		Instruct	ions Incomplete/	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
		Cuffs				Contamination		Mainte	enance		Part Moved	-	
		Heat Trea	t			Countersink		Mislabe	eled		Positioned V	Vrong	
		Inspection	n Strip in	Tube		Cut Too Short		Misread	t		Power Loss/	Surge	Other
	-	Ripples in				Drill Holes		Offset					
	Ш	Torque W	aves in E	xtrusio	n	Drawing		Out of (Calibration			-	
		Turning So	equence			Finish		Out of 9	Sequence				

Outside Dimensions

Date: _

DQA:

Wave/Twist in Tube

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

											DQA:	Date:	
NCR:	Yes	/ No				WORK ORDER	NON-CO	NFORM	AANCE / UPD	ATE		_	
											QA Closed:	Date:	
Nork Ord	er:					DISPOSITI	ON		AGAINST DEPARTMENT/PROCESS				
					ework Scrap	r	Skid-tube Machining	Crosstube Small Fab	4	Water Jet d. Eng. Coor.	Engineering Quality		
NCR I	No.				<u> </u>	Work Order U			noforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier	Other
Root					Descr	ription of work order	update I	nitial	Acti	on	Sign &		
Cause		Date	Step	Qty		or Non-conformance	e Ch	ief Eng	Descri	ption	Date	Verification	QC Inspector
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perator			İ						1			1	
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napproved													
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Landi	ng (Gear			_	General					-	_	_
		Bending				Bend	<u> </u>	Grain			Ovalized		Pressure/Forced
		Centre No	ot Concer	ntric to	o/s	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
	L	Cracks				Broken/Damaged	<u></u>	1	on Incomplete	<u></u>	Part Incorre	ct	Weld
	L	Crushed/0	Crimped,			Burrs	<u> </u>	Instruct	ions Incomplete/U	nclear	Part Lost/M	ssing	Wrong Stock Pulled
	Cuffs		Contamination		Mainte	nance		Part Moved					
		Heat Trea	t			Countersink		Mislabe	led		Positioned V	Vrong	_
		Inspection	n Strip in	Tube		Cut Too Short		Misread	I		Power Loss/	Surge	Other
		Ripples in	Bend			Drill Holes		Offset					
		Torque W	aves in E	xtrusio	n [Drawing		Out of 0	Calibration				
		Turning Se	equence			Finish		Out of S	Sequence				

Outside Dimensions

Wave/Twist in Tube

Folio

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Work Ord December-20-12				*947	730*							Page 3
Item ID: Revision ID: Item Name:	D3953-1 Gas Spring B	Bracket		Accept	*N900	040	100)*	Setup	Start Stop	ı V	S1* S2*
Start Date: Required Date: Reference:	12/19/12	Start Qty: 12.00 Req'd Qty: 12.00	*12* *12*		Cust Item Customer:	ID:					14.	
Approvals:		an:	Date:	Tooling: SPC (Y/N):		ate:			Run	Start Stop	*NI *NI	R1* R2*
Sequence ID/ Work Center II 150 *150* Packaging	D	Operation Description Identify as per dwg & Sto	st ock Location. <u>C76</u>	Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accep Qty	t Re Qt		Reject Number	Insp. Stamp
Packaging 160 *160* QC		QC21- Final Inspection - Memo	Work Order Release	0.00						13/1	131	
Quality Control									M	(B-C)1 ⁻³ d	

		DC	QA:	Date:	
NCR: Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE				

										QA Closed:	Date	:
Work Orde	er:				DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part N					Rework Scrap Use-as-is	Scrap Machining Small Fa Use-as-is Thermoforming Finishir		Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging		Engineering Quality Other	
NCR No.				Work Order Update	J		Large Fab	Composite		Supplier		
Root				Descri	ption of work order update	Initi	- 1		tion	Sign &		
Cause	Date	Step	Qty	(or Non-conformance	Chief	Eng	Descr	ription	Date	Verification	QC Inspector
Doc/Data										:		
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Operator	_	·										
Material							İ					
Setup												
Other												
Process	_											
Supplier								ı				
Training	4											
Unapproved		L				1				<u> </u>		
1 1.						AULT C	AIE	JCIRY			_	
Landir	ng Gear				General Bend	Пс	ain			Ovalized	Г	Pressure/Forced
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}		Cimpeu.		-	Contamination			nance	Officieal	Part Moved	331116	
,	Cuffs Heat Treat		Countersink	\vdash	slabe		<u> </u>	Positioned V	Vrong			
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	Ripples in	•			Drill Holes	\vdash	fset		<u> </u>	1. 2 2330/		
 	Torque W		xtrusio	, 	Drawing	\vdash		Calibration				
<u> </u>	Turning S			H	Finish	⊢		equence				
ŀ	Wave/Tw	=			Folio	\vdash		Dimensions				

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Picklist Print

December-20-12 8:13:44 AM

Work Order ID:

94730

Parent Item:

D3953-1

Parent Item Name:

Gas Spring Bracket

Start Date: 12/19/12

Required Date: 1/11/13

Page 1

Start Qty: 12.00

Required Qty: 12.00

Comments:

IPP RevA: New issue DD verified by:EC
IPP RevB as per dwg revC DD 10.03.02

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S11GA 304/316 0.125 Sheet		Purchased	No			100	sf	104.5000	0.0267	0.3372636	<i>d</i> (B13-1-	0 S
30 113 10 0.123 51100				<u>Location</u>		Loc Qty	<u>Lo</u>	c Code					
				MAT020	521	104.5 104.5			-12.	1620	(6)		

										DQA:	Date	э:	
NCR:	Yes / No	ı			WORK ORDER NON-C	ONFO	RN	MANCE / UPDATE			_		
										QA Closed:	Date	2:	
Work Orde	or•				DISPOSITION			AGAINS	T DE	PARTMENT	/PROCESS		
Work Orac			•		Rework	1 	•	Skid-tube Crosstube	- آ		Water Jet	\neg	Engineering
Part N	No.				Scrap			Machining Small Fal	-	Pro	d. Eng. Coor.	1	Quality
					Use-as-is	Th		oforming Finishing	_	4	re/Packaging		Other
NCR N	No				Work Order Update		ļ	Large Fab Composite	e		Supplier		
Root			1	Descri	ption of work order update	Initia	ıl	Action		Sign &	-		
Cause	Date	Step	Qty	. (or Non-conformance	Chief E	ng	Description		Date	Verification		QC Inspector
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Process				İ							<u>.</u>	1	
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	Bendin	-		<u> </u>	Bend	Gra			<u> </u>	Ovalized	<u> </u>	_	ressure/Forced
	 	Not Conce	ntric to	o/s	BOM/Route	Hard			<u> </u>	Over/Under	-	_	emperature/Cure
	Cracks			_	Broken/Damaged	$\overline{}$		on Incomplete	<u> </u>	Part Incorre	}	_	/eld
"		d/Crimped	-	<u> </u>	Burrs	├ ─		oris incomplete/Unclear	<u> </u>	Part Lost/Mi		\^	Vrong Stock Pulled
	Cuffs				Contamination	\vdash		nance	_	Part Moved			
	Heat Tr			<u> </u>	Countersink	-	label		L	Positioned V			
	${f -}$	ion Strip ir	Tube	<u> </u>	Cut Too Short	Misi			L	Power Loss/	Surge	0	ther
	Ripples	in Bend			Drill Holes	Offs	et						

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

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DART AEROSPACE LTD	Work Order:	94730
Description: Gas Spring Bracket	Part Number:	D3953-1
Inspection Dwg: D3953 Rev: C		Page 1 of 1

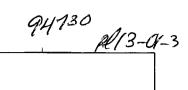
FIRST ARTICLE INSPECTION CHECKLIST

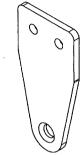
X First Article	Prototype
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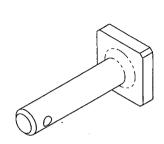
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.194	+0.005/-0.001	.194	(V BOL	
Ø0.257	+0.006/-0.001	.7<7	2		ν	
0.375	+/-0.010	,377	7		V	
0.625	+/-0.010	,679	و		V	
0.38	+/-0.030	377	2		V	
1.38	+/-0.030	1.385	2	.7	V	
1.00	+/-0.030	1.00	7_		٧	
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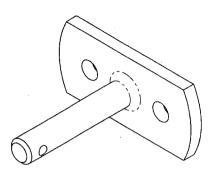
Measured by: R	Audited by:	2.5	Prototype Approval:	N/A
Date: 3-1-78	Date: /	3-129	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	09.10.22	New Issue	KJ 10	
В	09.12.14	Dwg Rev updated	KJ KJ	













D3953-1 GAS SPRING BRACKET (FULL LID)

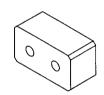
D3953-3 GAS SPRING STUD, LID

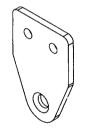
D3953-5 GAS SPRING STUD, BASE

D3953-7 GAS SPRING SPACER

D3953-9 GAS SPRING WASHER











D3953-11 GAS SPRING SPACER

D3953-13 GAS SPRING SPACER (FULL LID)

D3953-15 GAS SPRING BRACKET (SPLIT LID)

D3953-17 GAS SPRING SPACER (SPLIT LID)

D3953-19 GAS SPRING BRACKET (SQUARE BASKET)





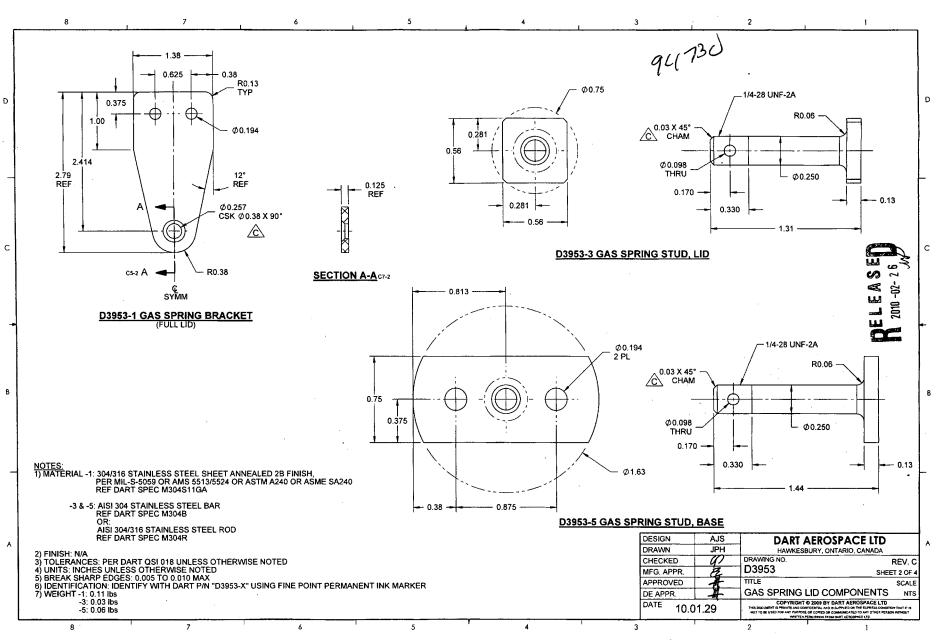
	DESCRIPTION	BY	DATE
Α	NEW ISSUE	AJS	09.07.27
В	SHEET 3 ZONE C1, DIM 0.05 MIN WAS 0.13, MULTIPLE DIMENSIONS MINMAX REMOVED TOLERANCE ADDED. REASON: DIFFICULTY INSTALLING COTTER PIN AT NEXT ASSY.	AJS	09.11.11
С	PARTS -19 & -21 ADDED (SHT 18 4); CSK CALLOUT WAS CHAM (C6-2, B6-3, C6-4); E SYMM WAS & SYM ABOUT (C7-2, C7-4); SECTION C-C REPOSITIONED TO B2-4 REASON: ADDL PARTS REQD, DRAFTING ERRORS	JPH	10.01.29

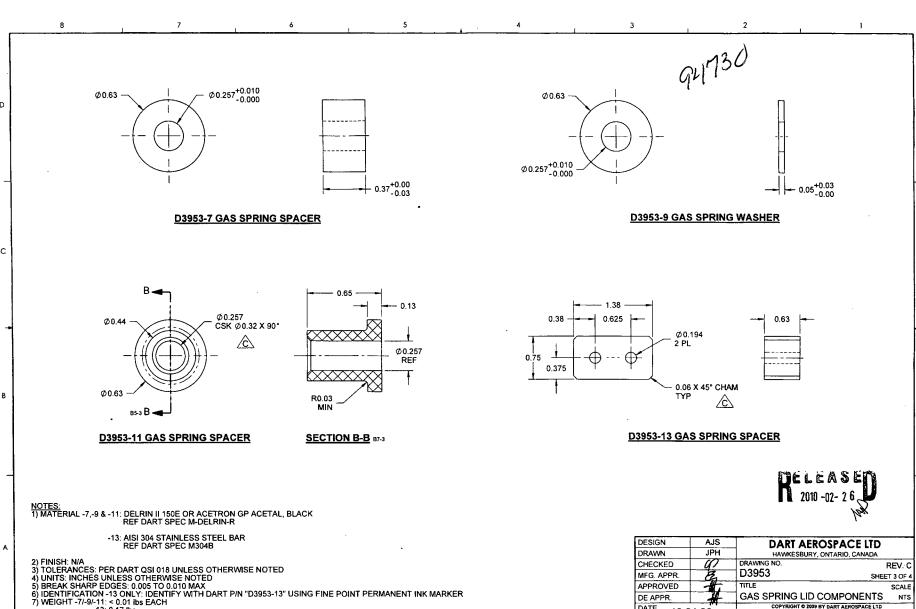
DESIGN	AJS	DART AEROSPACE LTD			
DRAWN	JPH	HAWKESBURY, ONTARIO, CANADA			
CHECKED	D	DRAWING NO.	REV. C		
MFG. APPR.	E	D3953 SHEE	T 1 OF 4		
APPROVED	#7	TITLE	SCALE		
DE APPR.	#	GAS SPRING LID COMPONENTS	NTS		
DATE 10.0	1.29	COPYRIGHT © 2009 BY DART AEROSPACE LTD 198 DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED OF THE DEPARTS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPLYS OF COMPETON CONTINUED ANY OTHER PRIVACY WITHOUT			

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DESIGN	AJS	DART AEROSPACE LTD		
DRAWN	JPH	HAWKESBURY, ONTARIO, CANADA		
CHECKED	W	DRAWING NO.	REV. C	
MFG. APPR.	E	D3953 SHEE	T 3 OF 4	
APPROVED	1	TITLE	SCALE	
DE APPR.	#	GAS SPRING LID COMPONENTS	NTS	
DATE 10.0	1.29	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS THE CONTROLLING AND IS SUPPLIED ON THE ELERESS CONDITION THAT IT IS NOT TO BE USED FOR MAY PURPOSE OR COMED OR COMMUNICATED ON ANY THER PERSON WITHOUT WHITTEN PERSONS FROM COURT ARROSPACE LTD.		

-13: 0.17 lbs

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